4. Consonant Runs

Program Name: Consonant.java Input File: consonant.dat

Given a string, find the longest run of consonants, case insensitive and which may or may not be consecutive, that are either ascending or descending. In this problem the letter "Y" is a consonant. The following consonants are ascending – "b g t". The following consonants are descending – "m h c". Repeated consonants can be considered ascending when determining ascending runs and descending when considering descending runs. A string of a single consonant can be considered either ascending or descending.

For example, in the string

```
A human must turn information into intelligence or knowledge.
```

the consonants are

```
h m n m s t t r n n f r m t n n t n t l l g n c r k n w l d g
```

Excluding shorter substrings, the ascending runs are

```
hmn, mstt, r, nn, fr, mt, nnt, nt, ll, gn, cr, knw, dg
```

and the descending runs are

```
nm, ttrnnf, rm, tnn, tn, tllg, nc, rk, wld, g
```

The string `ttrnnf` is the longest ascending or descending string, thus the longest run is 6.

Input
The first line of input will consist of a single integer, *n*, indicating the number of lines to follow. Each line will consist of a string between 1 and 128 characters long, inclusive. The string may be a mix of uppercase and lowercase letters, digits, punctuation marks, and spaces.

Output
For each input string, print a single integer on its own line representing the count of the longest run of ascending or descending consonants in the string.

Constraints
```
1 <= n <= 100
```

Example Input File
```
3
A human must turn information into intelligence or knowledge.
$234.56
QWERTY
```

Example Output to Screen
```
6
0
3
```